PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5149751

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NUMBER OF INVENTORS previously recorded on Reel 044388 Frame 0211. Assignor(s) hereby confirms the SHINICHI SATO SHOULD BE ADDED AS AN INVENTOR. THERE ARE 2 INVENTORS BOTH NAMED SHINICHI SATO	
RESUBMIT DOCUMENT ID:	504927006	

CONVEYING PARTY DATA

Name	Execution Date
Yoji TOZAWA	11/15/2017
Masashi SHIMOYASU	11/15/2017
Makoto YOSHINO	11/20/2017
Takuo ABE	11/15/2017
Akihiko OIDE	11/15/2017
Tsutomu ONO	11/16/2017
Shinichi SATO	11/16/2017
Makoto MORITA	11/17/2017
Hidekazu SATO	11/15/2017
Masashi KITAZAKI	11/15/2017
Naoki UCHIDA	11/15/2017
Masahiro KATO	11/15/2017
SHINICHI SATO	11/15/2017

RECEIVING PARTY DATA

Name:	Tdk Corporation
Street Address:	3-9-1, Shibaura, Minato-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	108-0023

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15821998

CORRESPONDENCE DATA

Fax Number: (703)836-2787

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

505102991 REEL: 046921 FRAME: 0687

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Address Line 2: P.O. BOX 320850

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ATTORNEY DOCKET NUMBER: 179229

NAME OF SUBMITTER: KARLI M. COLLINS

SIGNATURE: /Karli M. Collins/

DATE SIGNED: 09/20/2018

Total Attachments: 3

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> PATENT REEL: 046921 FRAME: 0688

504686125 12/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4732847

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yoji TOZAWA	11/15/2017
Masashi SHIMOYASU	11/15/2017
Makoto YOSHINO	11/20/2017
Takuo ABE	11/15/2017
Akihiko OIDE	11/15/2017
Tsutomu ONO	11/16/2017
Shinichi SATO	11/16/2017
Makoto MORITA	11/17/2017
Hidekazu SATO	11/15/2017
Masashi KITAZAKI	11/15/2017
Naoki UCHIDA	11/15/2017
Masahiro KATO	11/15/2017

RECEIVING PARTY DATA

Name:	TDK CORPORATION
Street Address:	3-9-1, SHIBAURA, MINATO-KU
City:	токуо
State/Country:	JAPAN
Postal Code:	108-0023

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15821998	

CORRESPONDENCE DATA

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Phone: 703-836-6400
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Correspondent Name: JAMES A. OLIFF
Address Line 1: OLIFF PLC

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PATENT REEL: 046921 FRAME: 0689

ASSIGNMENT

Whereas, I/we,	
Name	Address
	c/o TDK Corporation,
1) Yoji TOZAWA	3-9-1, Shibaura,
1) Yoji TOZAWA	5-5-1, Smoaura, Minato-ku, Tokyo 108-0023 Japan
	c/o TDK Corporation,
2) Brook: COTMONACT	· · · · · · · · · · · · · · · · · · ·
2) Masashi SHIMOYASU	3-9-t, Shibaura,
market and the second s	Minato-ku, Tokyo 108-0023 Japan
2) BELL-4- MOCHINO	c/o TDK Corporation,
3) Makoto YOSHINO	3-9-1, Shibaura,
	Minato-ku, Tokyo 108-0023 Japan
A\ m 1 Amm .	c/o TDK Corporation,
4) Takuo ABE	3-9-1, Shibaura,
•	Minato-ku, Tokyo 108-0023 Japan
5)	c/o TDK Corporation,
5) Akihiko OIDE	3-9-1, Shibaura,
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A	c/o TDK Corporation,
6) Tsutomu ONO	3-9-1, Shibaura,
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	c/o TDK Corporation,
7) Shinichi SATO	3-9-1, Shibaura,
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8) Makoto MORITA	3-9-1, Shibaura,
	Minato-ku, Tokyo 108-0023 Japan
	c/o TDK Corporation,
9) Shinichi SATO	3-9-1, Shibaura,
•	Minato-ku, Tokyo 108-0023 Japan
•	c/o TDK Corporation,
10) Hidekazu SATO	3-9-1, Shibaura,
<i>'</i>	Minato-ku, Tokyo 108-0023 Japan
•	c/o TDK Corporation,
11) Masashi KITAZAKI	3-9-1, Shibaura,
,	Minato-ku, Tokyo 108-0023 Japan
	c/o TDK Corporation,
12) Naoki UCHIDA	3-9-1, Shibatra,
,	Minato-ku, Tokyo 108-0023 Japan
	c/o TDK Ugo Corporation,
13) Masahiro KATO	146-1, Harakawa, Ohuchi-Mikawa,
~=,	Yuri-Honjo-city, Akita 018-0731 Japan

hereinafter called assignor(s), have invented certain improvements in

ELECTRONIC COMPONENT

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:

filed on November 24, 2017, Serial No. 15/821998; and

Whereas

TDK Corporation

3-9-1, Shibaura,

Minato-ku, Tokyo 108-0023 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

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AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

In the event that the patent application filing date or serial number is not known at the time this Assignment is executed, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this Assignment after such information is added.

	INVENTORS	<u>DATE SIGNED</u>
1): Name:	Yoji Tozawa Yoji TOZAWA	2017.11.15
2) : Name :	Masashi Shimoyasu Masashi SHIMOYASU	2017.11.15
3) : Name :	Makoto Yoshino Makoto YOSHINO	2017. 11.20
4): Name:	Tarkuo Abe Takuo ABE	2017.11.15
5):	Akihiko Oide	2017.11.15
Name: 6):	Akihiko OIDE 7 SU TO MU ONO Tsutomu ONO	2017.11.16
Name : 7) :	Tsutomu ONO Shinich Safe Shinichi SATO	2017, 11, 16
Name:	Shinichi SATO Makoto Morita	2017.11.17
Name:	Makoto MORITA	2017,11,15
9): Name:	Shinichi SATO Shinichi SATO	,
10) : Name :	Hidekazu SATO Hidekazu SATO	2017.11.16
11) : Name :	Masashi KITAZAKI Masashi KITAZAKI	2017. 11.15
12) : Name :	Naoki Uchida Naoki UCHIDA	2017.11.15
13) : Name :	<u>Masahiro Kato</u> Masahiro KATO	2017.11.15

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

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